FIG.1(a) prior art

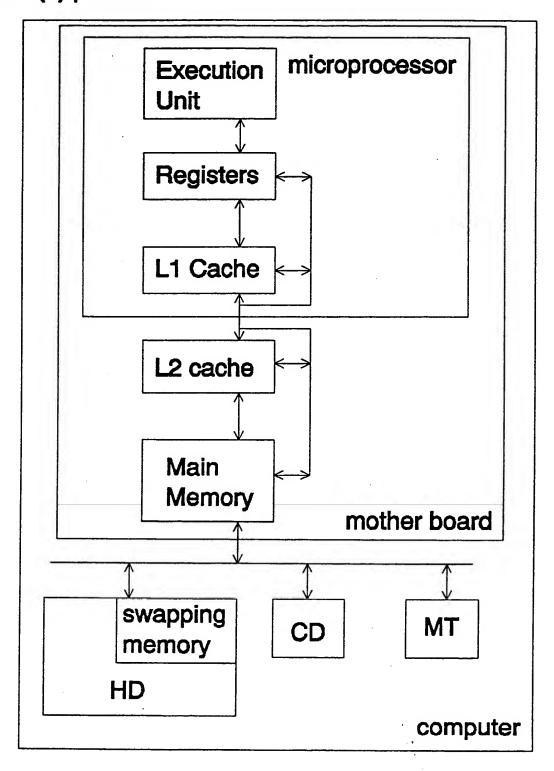
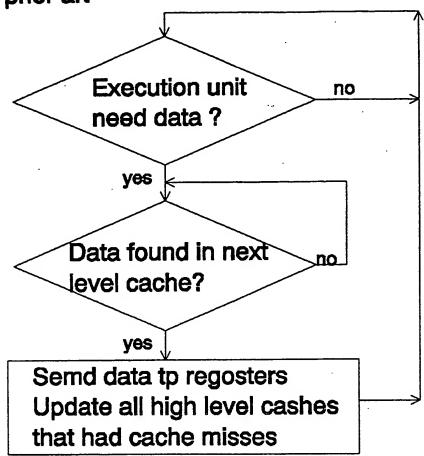


FIG.1(b) prior art



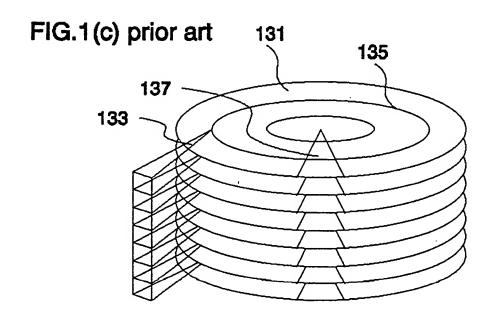


FIG.2(a) current art SPAM operation **ADS Address** wite FIG.2(b) current art DRAM operation **RAS CAS**

column

read

ஆரா

1881

active

column

writ

DATA

FIG.2(c)

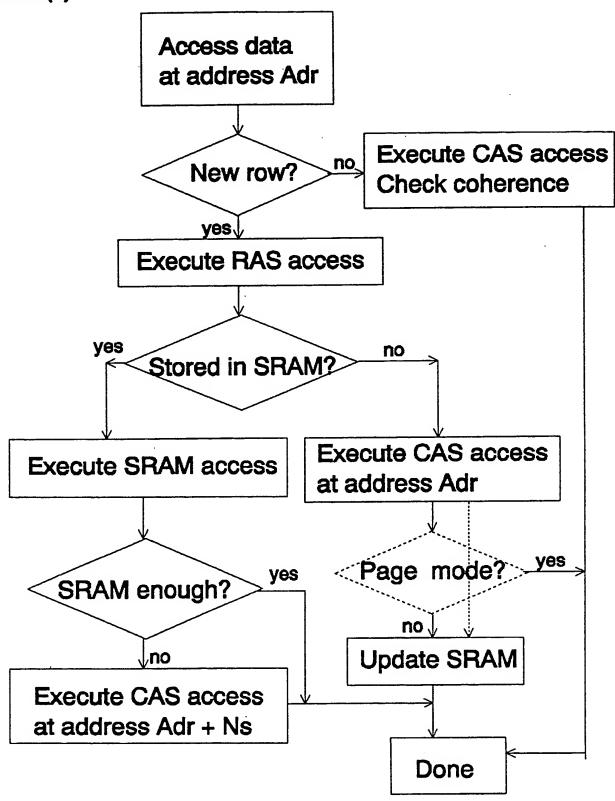


FIG.3(a)

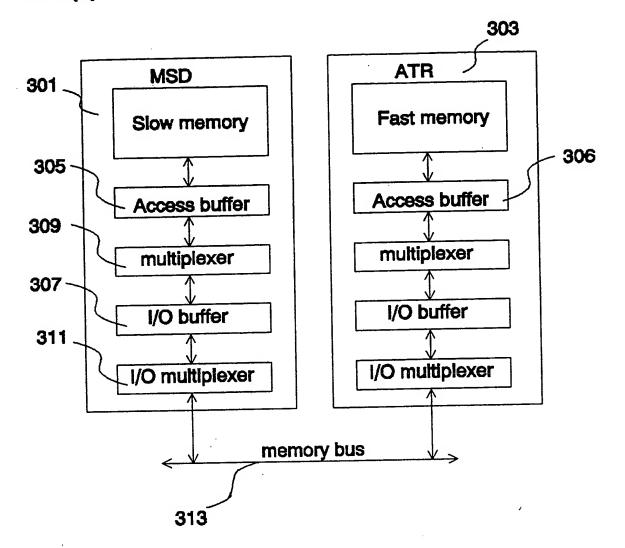
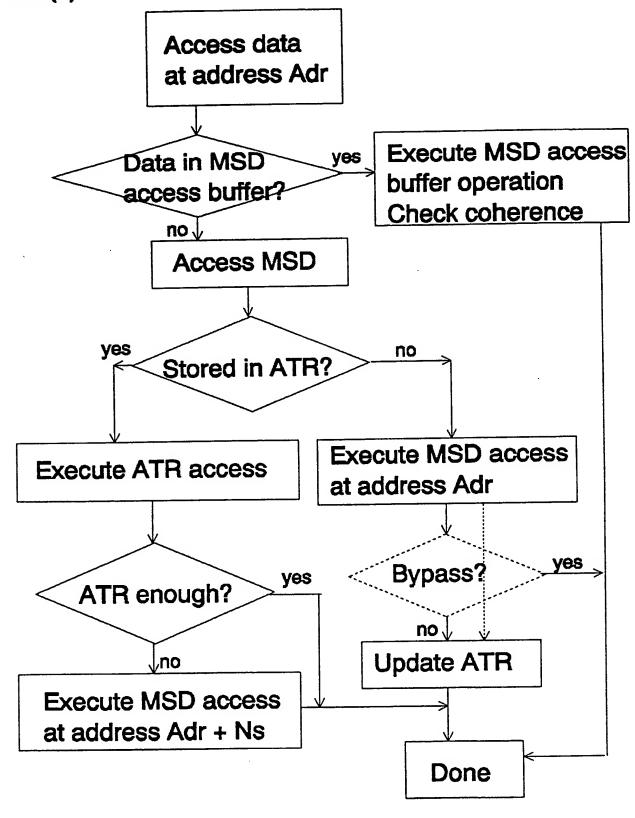
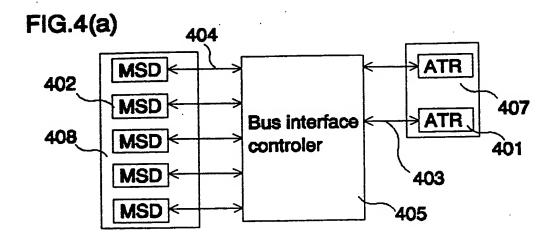
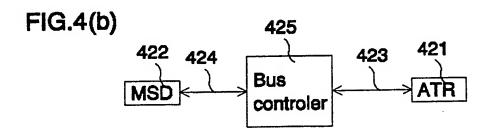
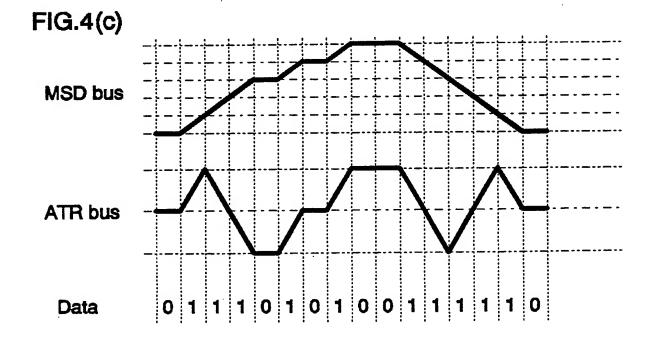


FIG.3(b)









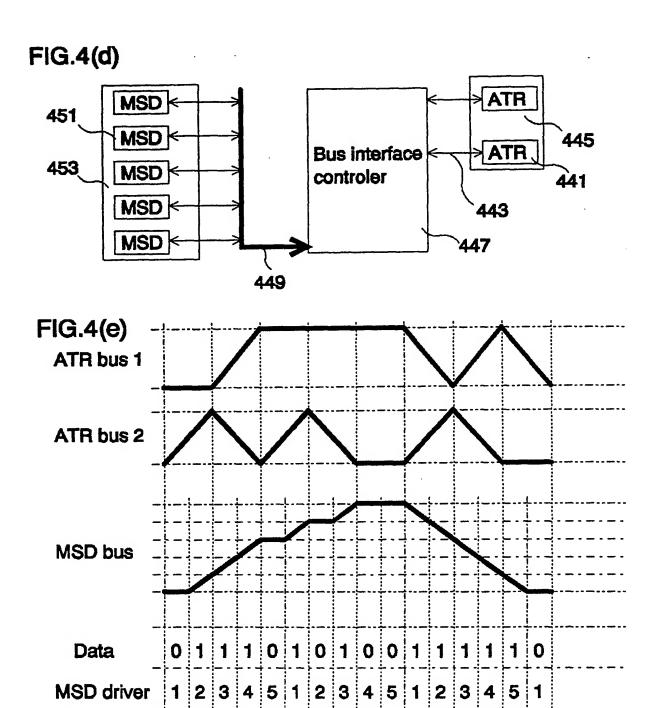


FIG.5(a) DPATR method

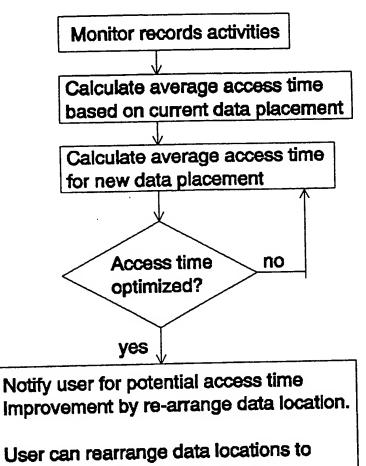


FIG.5(b) DP method

optimum placement.

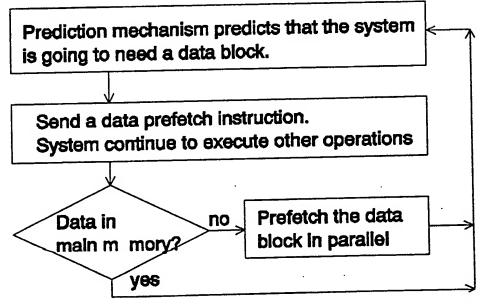


FIG.5(c) SDP method

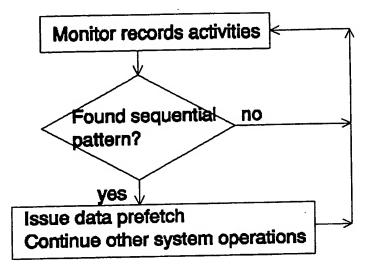
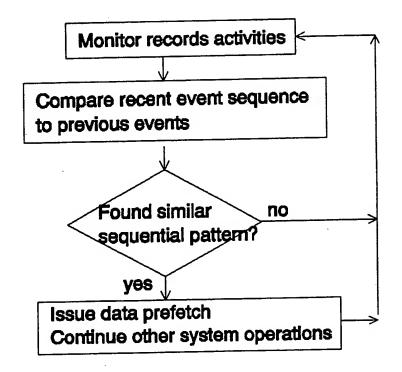


FIG.5(d) PDP method



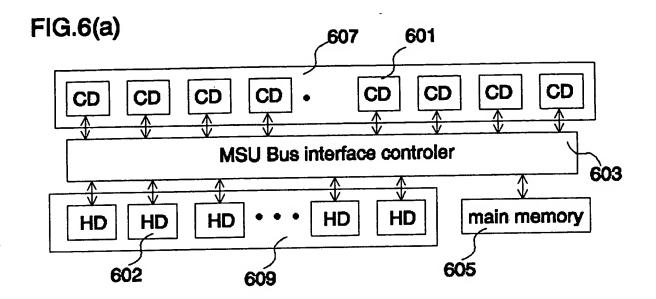


FIG.6(b)

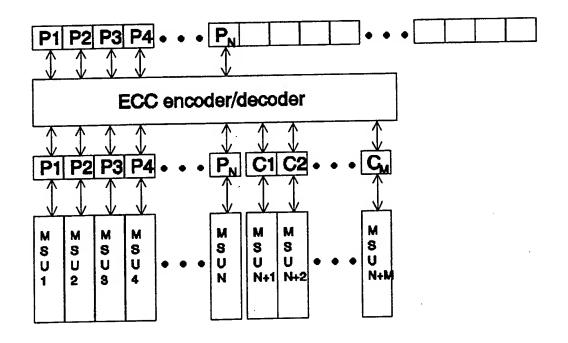


FIG.6(c)

